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Release of protein from highly cross-linked hydrogels of poly(ethylene glycol) diacrylate fabric by UV polymerization

MB Mellott, K Searcy, MV Pishko - Biomaterials, 2001 - Elsevier

... and colleagues developed PEG hydrogels formed through the photopolymerization of poly(ethylene glycol) diacrylate ... In this paper we describe the preparation of highly crosslinked hydrogels of PEG-DA containing a polyacrylate crosslinking agent, pentaerythritol triacrylate ...

Cited by 117 - Related articles - BL Direct - All 8 versions

Novel crosslinking methods to design hydrogels

WE Hennink, CF Van Nostrum - Advanced Drug Delivery Reviews, 2002 - Elsevier

... by the type of ester group in the crosslinks, the crosslink density of ... with adipic dihydrazide followed by crosslinking with a macromolecular crosslinker (poly(ethylene glycol)-propiondialdehyde) ... by the concentration of the dissolved polymer and the amount of crosslinking agent. ...

Cited by 358 - Related articles - All 11 versions

Preparation of crosslinked polystyrene beads including oligo(oxyethylene) chain as crosslink agent and their use as phase transfer catalyst

S Itsuno, I Moue, K Ito - Polymer Bulletin, 1989 - Springer

... in Williamson ether synthesis and indeed are more effective than poly(ethylene oxide) itself (3). ... are paralleled somewhat with the previous%~ described copolymers of styrene with ethylene oxide. ... a summary of references to phase transfer catalysis by poly(ethylene glycols) and ...

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Temperature sensitive gels as size selective absorbants

RFS Freitas, EL Cussler - Separation Science and Technology, 1987 - informaworld.com

... We have overcome this by synthesizing crosslinked polymer gels which can be ... using a Price-Phoenix differential refractometer (poly(ethylene glycols), poly(ethylene oxide) and ovalbumin ... Poly(N-isopropylacrylamide) gels with different amounts of crosslinking were synthesized ...

Cited by 65 - Related articles - All 2 versions

Poly(ethylene glycol)-containing hydrogels in drug delivery

NA Peppas, KB Keys, M Torres-Lugo, AM ... - Journal of controlled ..., 1999 - Elsevier

... The radiation dose needed to crosslink PEG chains is not only on ... swelling and release behavior were studied as functions of the crosslinking structure and ... 3. EW Merrill, Poly(ethylene oxide) star molecules: synthesis, characterization, and applications in medicine ...

Cited by 150 - Related articles - All 9 versions

Preparation of sterically stabilized human serum albumin nanospheres using a novel Dextranox MPEG crosslinking agent

W Lin, AGA Coombes, MC Garnett, MC Davies, ... - Pharmaceutical ..., 1994 - Springer

... to small polystyrene particles can form a steric poly(ethylene oxide) (PEO) barrier ... a modified coacervation method and crosslinking with methyl poly(ethylene glycol) substituted ... Crosslinked with Glutaraldehyde and- Dextranox-MPEG Crosslinking Agent Glutaraldehyde Dextranox ...

Cited by 24 - Related articles - BL Direct - All 6 versions

[CITATION] Nonpolysaccharide membranes for reverse osmosis: NS-100 membranes

LT Rozelle, JE Cadoite, KE ... - Reverse ..., 1977 - National Research Council Canada

[Cited by 36](#) - [Related articles](#)

A review of chitin and chitosan applications* 1

R Kumar, NV Majeti - *Reactive and functional polymers*, 2000 - Elsevier

... Chitin was pulverized and two parts by weight were added to 87 parts by weight of a solvent mixture containing 40% TCA, 40% chloral hydrate (US Department of Justice, Drug Enforcement Agency, class IV controlled substance), and 20 ... 5.3.3. Amine **oxide**/water system. ...

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Hydrogels for tissue engineering: scaffold design variables and applications

JL Drury, DJ Mooney - *Biomaterials*, 2003 - Elsevier

... Synthetic materials include **poly(ethylene oxide)** (PEO), poly(vinyl alcohol) (PVA), poly(acrylic acid) ... These properties in turn, determine gel formation dynamics, **crosslinking** density, and material ... PEO and the chemically similar **poly(ethylene glycol)** (PEG) are hydrophilic polymers ...


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Synthesis of Reversible Shell Cross-Linked Micelles for Controlled Release of Bioactive Agents

Y Li, BS Lokitz, SP Armes, CL McCormick - *Macromolecules*, 2006 - ACS Publications

... Abstract: A **poly(ethylene oxide)** (PEO)-based macromolecular chain transfer **agent** (macro-CTA) was employed to ... Environment-Sensitive Stabilization of Core-Shell Structured Polyion Complex Micelle by Reversible **Cross-Linking** of the Core through Disulfide ...

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Temperature sensitive gels as extraction solvents

RFS Freitas, EL Cussler - Chemical Engineering Science, 1987 - Elsevier

 ... dextran Polystyrene latex 2,000,000 97 951 99 961 96 96t **Poly(ethylene glycol) 400 3400 ...** efficiency for separating vitamin B-12 doubles as the percentage **crosslinking** increases from 1 ... results for the molecularly compact vitamin and the extended **poly- ethylene glycol** show that ...

 Cited by 215 - [Related articles](#) - All 3 versions

Chemical modifications of proteins: A review

GE Means, RE Feehey - Journal of Food Biochemistry, 1998 - interscience.wiley.com

 ... **Crosslinking** is sometimes used to determine distances, and other kinds of spatial relationships, between the components of simple protein ... A large number of protein **cross-linking agents** have been described and many are available from commercial sources (eg, from Pierce ...

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The conjugation of proteins with poly(ethylene glycol) and other polymers:: Altering properties of proteins to enhance their therapeutic potential

NV Katre - Advanced Drug Delivery Reviews, 1993 - Elsevier

 ... of activated N-acryloxysuccinimide groups minimized the probability of **cross-linking** the protein ...

 1987) Chemical modification of recombinant interleukin-2 by **poly(ethylene glycol)** increases its ...

 Nitecki, DE (1987) A water-soluble monitorable peptide and protein **crosslinking agent**. ...

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Poly (ethylene glycol)-containing hydrogels in drug delivery

NA Peppas, KB Keys, M Torres-Lugo, AM ... - Journal of controlled ..., 1999 - Elsevier

 ... The radiation dose needed to **crosslink** PEG chains is dependent not only ... Louis, MO) and

poly(ethylene glycol) monomethacrylate containing PEG of molecular weight 1000 (Polysciences Inc ... were mixed in appropriate molar ratios and the **crosslinking agent**, tetraethylene glycol ...

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Glucose-sensitivity of glucose oxidase-containing cationic copolymer hydrogels having poly (ethylene glycol) grafts

K Podual, FJ DoyleIII, NA Peppas - Journal of Controlled Release, 2000 - Elsevier

 ... such as polyacrylates [3], polymethacrylates [4], **poly(ethylene glycol)** [5], polypyrroles [6 ... by using diethylaminoethyl methacrylate (DEAEM, Aldrich), **poly(ethylene glycol)** monomethacrylate (PEGMA ... Polysciences, Warrington, PA, USA) and the **crosslinking agent** tetraethylene glycol ...

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Interaction of poly (ethylene oxide) with solvents: 3. Synthesis and swelling in water of crossli poly (ethylene glycol) urethane networks

NB Graham, M Zulfikar - Polymer, 1989 - Elsevier

 ... changes the composition, reducing the weight and molar percentage of **poly(ethylene oxide)** ... This, as well as the degree of **crosslinking**, must affect the ultimate attainable ... the dramatic decrease in aqueous swelling with increasing temperature of a **poly(ethylene glycol)** hydrogel of ...

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Controlled release by using poly (methacrylic acid-g-ethylene glycol) hydrogels

NA Peppas, J Klier - Journal of Controlled Release, 1991 - Elsevier

... Bulk polymerization took place in **polyethylene** vials under nitrogen in a water bath at ... networks were synthe- sized by the free-radical copolymerization and **crosslinking** reaction. ... from monomer stoichiometry) and found ratio of car- bonyl (from **poly(ethylene glycol methacry- late** ...

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Preparation of sub-micrometer porous membrane from chitosan/**polyethylene glycol** semi-IPN

M Zeng, Z Fang - Journal of membrane science, 2004 - Elsevier

... **Crosslinked** chitosan (CS) membrane with sub-micrometer porous structure was prepared by extraction of **polyethylene glycol** (PEG) from CS/PEG semi-IPN membrane. The content of PEG and the **crosslinking agent** has significant effects on the pore structure, swellability, and ...

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Networks for recognition of biomolecules: Molecular imprinting and micropatterning **poly (ethyl glycol)**-containing films

ME Byrne, E Oral, JZ Hilt, NA ... - Polymers for Advanced ... , 2002 - interscience.wiley.com

... polymerization of methacrylic acid in the presence of **polyethylene glycol** (PEG) derivatized ... **Poly-(ethylene glycol)** 200 methacrylate (PEG200MA), **poly(ethylene glycol)** 200 dimethacrylate (PEG200DMA), and ... where the average molecular weight of the ethylene **glycol** chain is ...

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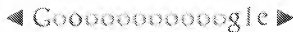
Hydrogels for tissue engineering: scaffold design variables and applications

JL Drury, DJ Mooney - Biomaterials, 2003 - Elsevier

... These properties in turn, determine gel formation dynamics, **crosslinking** density, and material mechanical ... PEO and the chemically similar **poly(ethylene glycol)** (PEG) are hydrophilic polymers (Figs. ... PEO or PEG is mixed with the appropriate photoinitiator and **crosslinked** via UV ...

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